

**B.Sc. FOOTWEAR DESIGN AND
PRODUCTION (BSCFWP)**

Term-End Examination

June, 2017

00294

**BFR-032 : PRODUCT KNOWLEDGE AND
MATERIAL FOUNDATION**

Time : 3 hours

Maximum Marks : 70

Note : Attempt any **seven** questions. All questions carry equal marks.

1. Show the foot arches with the help of a diagram and explain each in brief. 10
2. Explain French Sizing System in detail. 10
3. (a) Why is leather superior to synthetics as a shoe material ? Explain.
(b) Draw a sheep skin and show the different quality regions and lines of tightness in each quality region. 6+4=10
4. (a) Describe the different types of lasting processes used in shoe manufacturing.
(b) What is force lasting ? Explain with suitable examples. 6+4=10

5. What are the special features of San Crispino construction ? Draw a cross-sectional diagram of the same. $6+4=10$.
6. (a) Explain the purpose of finishing in shoe making. $4+6=10$
- (b) Briefly explain the different operations performed in the finishing department. $5+5=10$
7. (a) What are the pre-operation check points before stitching uppers ?
- (b) Define Toe-puff and Counter stiffener. $5+5=10$
8. (a) Write four different materials used for manufacturing soles. Also, write the ideal qualities for a soling material.
- (b) Name three companies each that are manufacturing insole board and shank board in India. $7+3=10$
9. What is the use of indirect reinforcement ? Explain in brief. 10
10. Describe the desirable properties of leather for shoe upper making. 10